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(71)Applicant : **CENTRAL GLASS CO LTD**

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## **(54) PROCESS FOR PRODUCING SELENIUM-CONTAINING, COLORED SODA- LIME SILICA GLASS**

(57)Abstract:

**PROBLEM TO BE SOLVED:** To solve the problem of time consumed for reaching stable production in the production of selenium-containing, colored soda-lime silica glass, due to the difficulty in adjusting the kiln-operating conditions for imparting a desired color tone and visible light transmittance to the glass.

**SOLUTION:** In a method for producing the silica glass, a selenium compound, an oxidizing agent and a reducing agent are added to a raw material for soda-lime silica glass. The raw material is subsequently heat melted to prepare a glass melt. By adjusting the amounts of the oxidizing agent and the reducing agent added, the oxygen partial pressure of the glass melt at 1,400°C is controlled in a range from  $1 \times 10^2$  to  $1 \times 10^4$  Pa. The yield of an elemental-state selenium, calculated by dividing the weight of the elemental-state selenium contained in the obtained silica glass by the total amount of selenium added, is controlled to  $\geq 5.0$  wt.%. The absorbance ratio, calculated by dividing the absorbance of the silica glass at 500 nm by the absorbance at 430 nm, is controlled to  $\geq 1.0$ .

## LEGAL STATUS

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3. In the drawings, any words are not translated.

## CLAIMS

[Claim(s)]

[Claim 1] It is the manufacture approach of the selenium content coloring soda lime silica glass which contains a selenium as a coloring component. In case heating melting is carried out and it considers as glass melt after adding a selenium compound at least as a coloring component to the raw material of soda lime glass and adding an oxidizer and a reducing agent, by adjusting the addition of an oxidizer and a reducing agent The oxygen tension of this glass melt in 1400 degrees C is controlled to  $1 \times 10^2$  Pa or more and  $1 \times 10^4$  Pa or less. The weight of the element-like selenium which contains this glass melt in the soda lime silica glass cooled and obtained It is made for the yield of the element-like selenium computed by having broken by total addition weight of a selenium to become more than 5.0wt%. And the manufacture approach of the selenium content coloring soda lime silica glass characterized by making it the extinction quotient computed by having broken it by the absorbance in 430nm become 1.0 or more.

[Translation done.]

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JAPANESE
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 [JP,2003-137593,A]

CLAIMS DETAILED DESCRIPTION TECHNICAL FIELD PRIOR ART  
EFFECT OF THE INVENTION TECHNICAL PROBLEM MEANS EXAMPLE

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